

[Remarks:](#) See §4.6, pages. 184 till 186

See §4.7.1, pages. 187 till 190

[Answer:](#)

$$F = 667 \text{ N}$$

[Explanation:](#)

$$W_z = 133,33 \times 10^3 \text{ mm}^3$$

$$\sigma_{\max}^{(M)} = \frac{M_{\max}}{W} = \frac{F \times (2000 \text{ mm})}{133,33 \times 10^3 \text{ mm}^3} = 10 \text{ N/mm}^2 \Rightarrow F = 667 \text{ N}$$